

Inventor(s): Yu-To Chen et al.

Docket No.: RD-25670 Attorney: J. Klindtworth Telephone: (518) 387-7360 "Replacement Sheet"

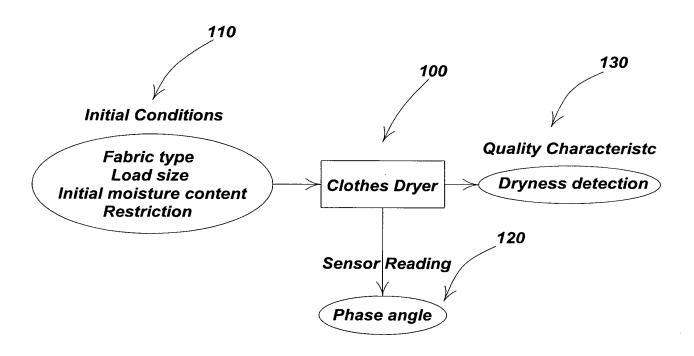


FIG.1

Ser.No.: 09/262,934 Inventor(s): Yu-To Chen et al. Docket No.: RD-25670 Attorney: J. Klindtworth Telephone: (518) 387-7360 "Replacement Sheet" 2/10 P(t)200 Log Phase Angle Data Sampled At First Sampling Rate R1 P(i)210 Sub-sample At Second Sampling Rate R2 P_{sub(i)} 220 Transform By Subtracting Each Sub-Sampled Data Point From 90 Degrees P tran(j) 230 **Convolute With** Wavelet Signal P_{conv(j)} Calculate Range Between Smallest And 240 Largest Convoluted Data Points Within Each Of A Plurality Uf Segments Of The Convoluted Signal Prange(k) 250 Perform Moving Average Calculation P_{ma(k)}

FIG.2

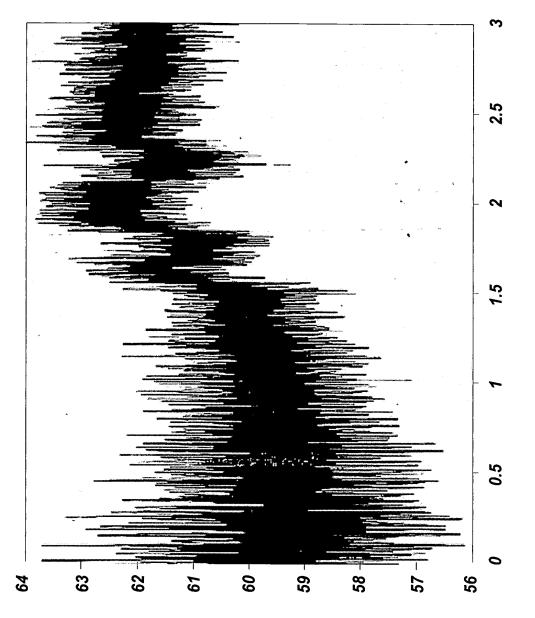
W(j)

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Time in 0.1 seconds(10 Hz loggong rate)

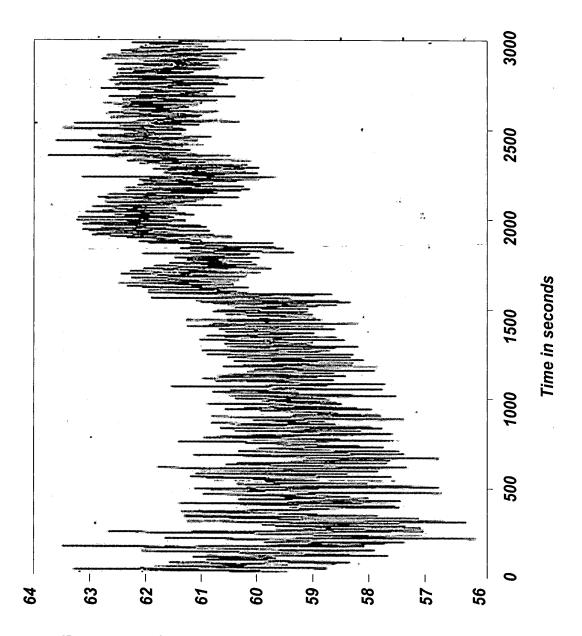
Raw data of phase angle in degrees

FIG.3

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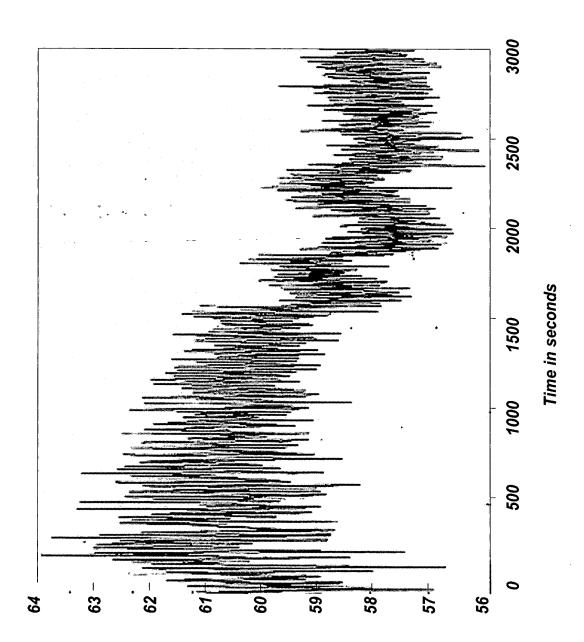


Subsampled phase angle in degrees Psub(j)

FIG.4

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FIG.5

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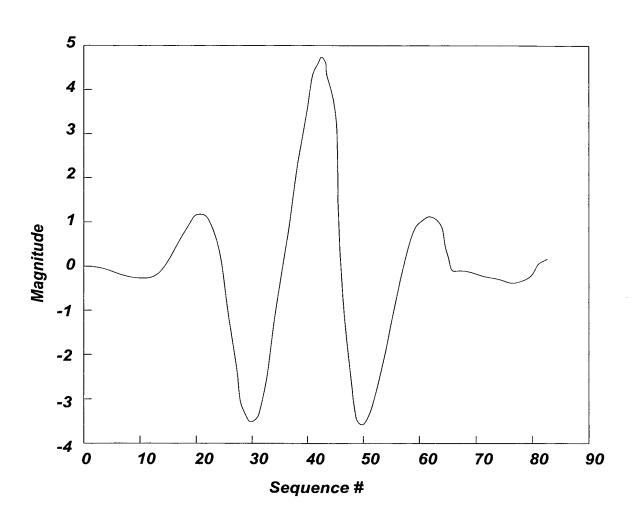


FIG.6

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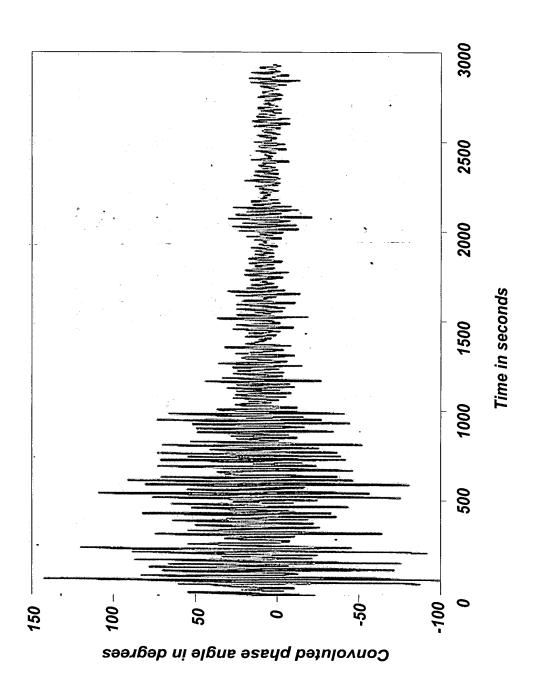


FIG.7

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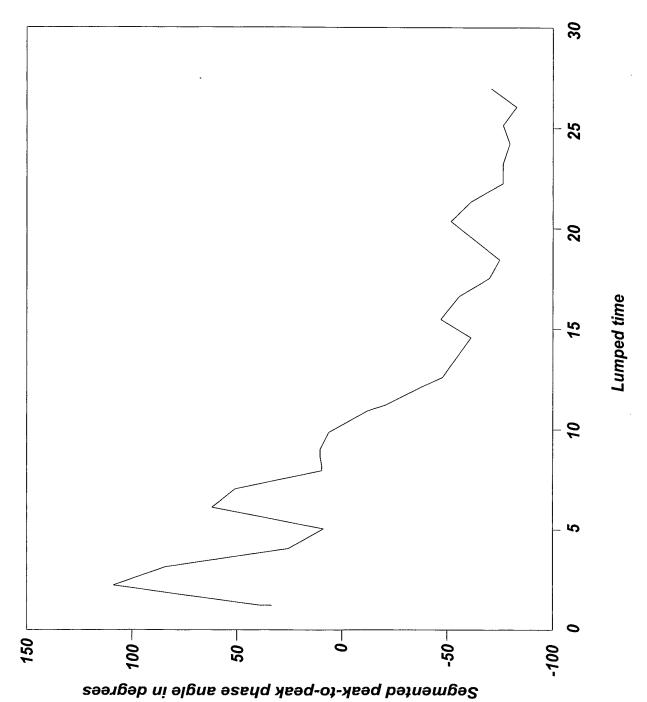
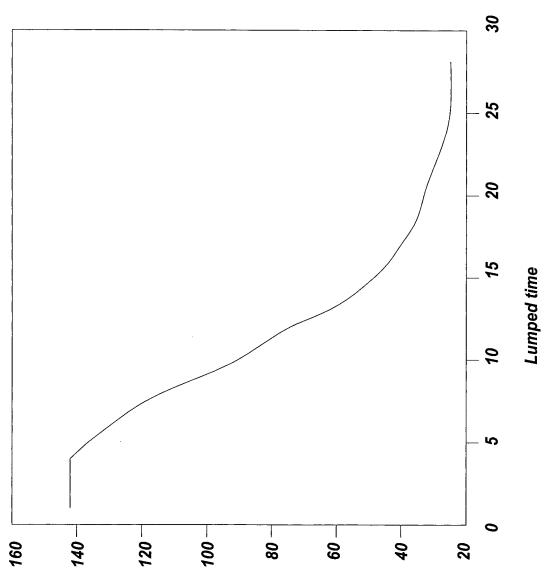


FIG.8

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Rectified phase angle in degrees (window size=7,twice)

FIG.9

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